

**ABSTRACT**

The invention relates to an apparatus and to a method for extracting elements from a gaseous medium and concentrating them in a liquid medium, by nebulizing this liquid medium by means of the gaseous medium and condensing the mist produced by this nebulization.

This apparatus comprises a first enclosure (20) for nebulization and condensation, intended to contain the liquid medium, which is provided with a conduit (35) for delivering the gaseous medium, means (31, 33) for nebulizing the liquid medium, and a conduit (45) for discharging the gaseous medium; means for depressurizing or pressurizing the interior of the first enclosure; and is characterized in that it comprises a second enclosure (40) for condensation and means for cooling this second enclosure.

Figure 2